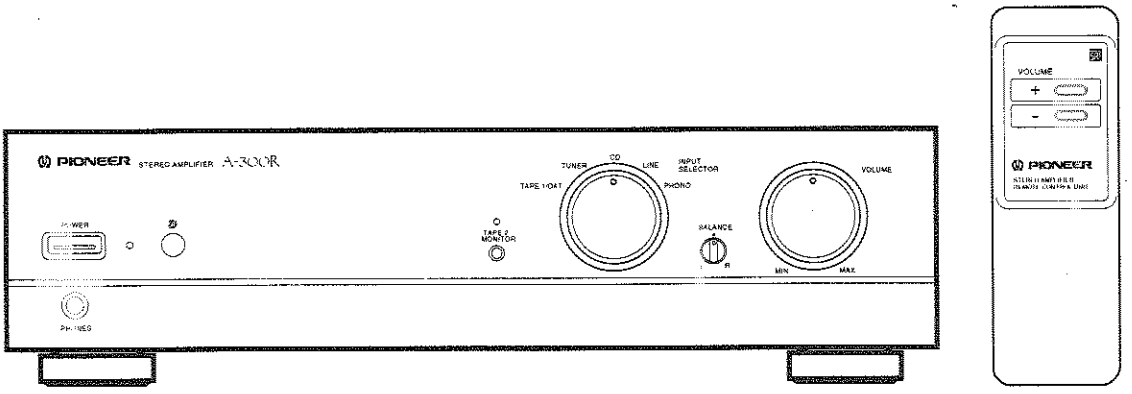
Operating Instructions

STEREO AMPLIFIER

A-300R



Thank you for buying this PIONEER product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

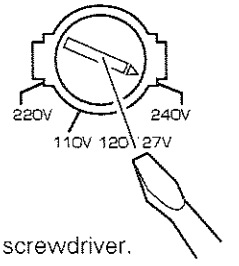
This product complies with the Low Voltage Directive (73/23/EEC), EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. European, U.K. and Australian models are not provided with this switch.
Main voltages in Saudi Arabia are 127 V and 220 V only.
Never use this model with 110 V setting is Saudi Arabia.

The line voltage selector switch is on the rear panel. Before you model is shipped from the factory, this switch is set to the power requirements of the destination. Check that it is set properly before plugging the power cord into the AC wall socket. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows.

1. Use a medium-size screwdriver.
2. Insert the screwdriver into the groove on the voltage selector, and adjust so that the tip of the arrow points to the voltage value of your area.



Medium-size screwdriver.

PIONEER®
The Art of Entertainment

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code :

Blue	**:Neutral**
Brown	**:Live**

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.

The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adaptor or the distribution panel should be provided with 5 amp fuse. As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows :

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three pin plug.

NOTE

After replacing or changing a fuse, the fuse cover on the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost, replacement fuse covers can be obtained from your dealer.

Only 5 A fuses approved by B.S.I. or A S T A to B S 1362 should be used.

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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FEATURES

- **Remote control integrated amplifier**
  The volume can be up/down using the remote control unit.
- **Wide-Range Linear Circuit**
  This new current feedback circuit assures improved operating stability for flat output impedance and stable driving of speakers across the full range of frequencies.
- **High-power Output of 55W+55W/4Ω(DIN), 45W+45W/8Ω(DIN)**

INSTALLATION

LOCATION

Install the amplifier in a well-ventilated location where it will not be exposed to high temperatures or humidity.

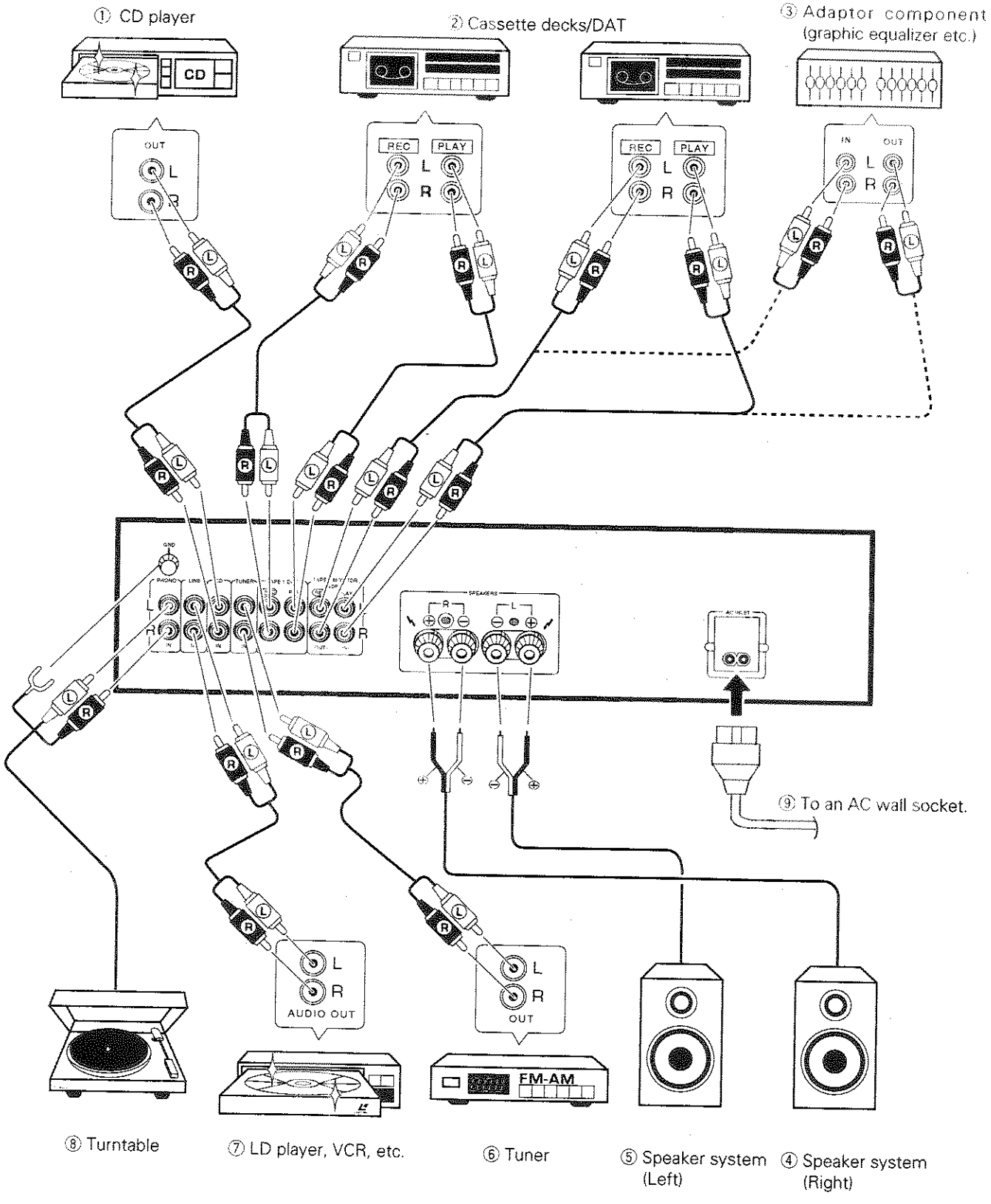
Do not install the amplifier in a location which is exposed to direct rays of the sun, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the amplifier in a damp or dusty environment may result in a malfunction or accident. (Also avoid installation near cookers etc., where the amplifier may be exposed to oily smoke, steam or heat.)

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

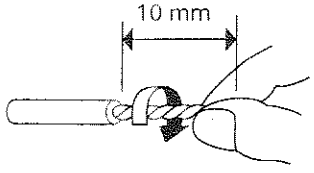
CONNECTIONS

• Illustration shows U.K. model.

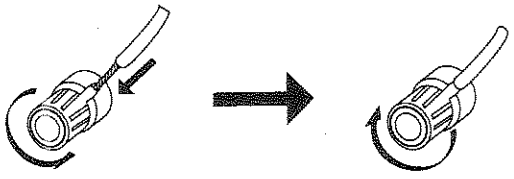


CONNECTING THE SPEAKER CORDS

1. Strip off the vinyl covering and twist the tip of the wire core.

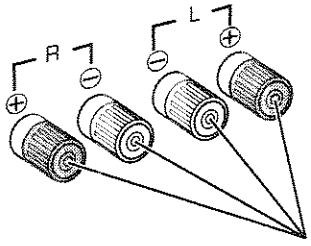


2. Loosen the knob and insert the wire core into the terminal hole.
3. Tighten the knob to fix the wire core in place.



NOTE:
Do not allow any of the cord conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdown may occur when conductors come into contact with each other.

NOTE:
Do not remove studs. Removal of the studs from the out put terminals may lead to a hazardous connection with the mains supply if the speaker cord is terminated with Banana plugs (U.K. model only).



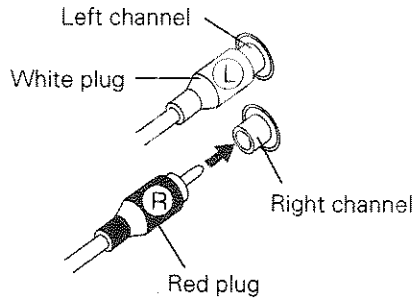
Studs (4 pieces)

Speaker Impedance

When speaker systems are connected to only the SPEAKERS terminals, such speakers should have a rated impedance in the range of 4 - 16 Ω.

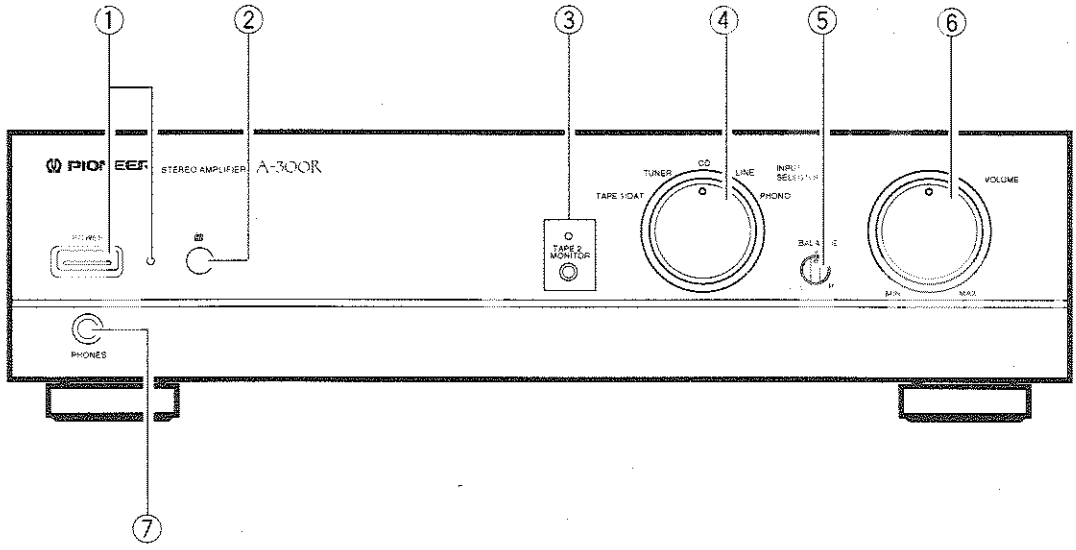
CONNECTING THE INPUT/OUTPUT CORDS

Connect the white plug to the L (left) channel, and the red plug to the R (right) channel. Be sure to push the plugs in securely.



PANEL FACILITIES

[FRONT PANEL]



① POWER switch/indicator
Press to turn power to the unit ON and OFF.
The indicator lights when the power is ON and goes off when the power is OFF.

② Remote control sensor window

③ TAPE 2 MONITOR switch/indicator
Use when there is an adaptor component (graphic equalizer, etc.) or cassette deck connected to the TAPE 2/MONITOR (ADPT) terminals.
Off:
Indicator goes out when not in use.
On:
Indicator lights when using the adaptor component or listening to the cassette deck.

NOTE:
- *When no connections are made to the TAPE 2/MONITOR (ADPT) terminals, or when they are not in use, be sure to set this switch to the off position. (No sound will be heard if it is set to the on position.)*
- *To monitor during recording using a 3-head deck, use the TAPE 2/MONITOR (ADPT) terminal. Even if the 3-head deck is connected to the TAPE 1/DAT terminal, monitoring during recording cannot be performed. (See page 8.)*

④ INPUT SELECTOR switch
Use to select the playback source.
TAPE 1/DAT:
For playback with a cassette deck or digital audio tape deck connected to the TAPE 1/DAT terminals.
TUNER:
For AM or FM broadcast reception with a tuner.
CD:
For compact disc playback with a CD player.
LINE:
Set to this position when listening to a program from a component connected to the LINE terminals.
PHONO:
For record playback with a turntable.

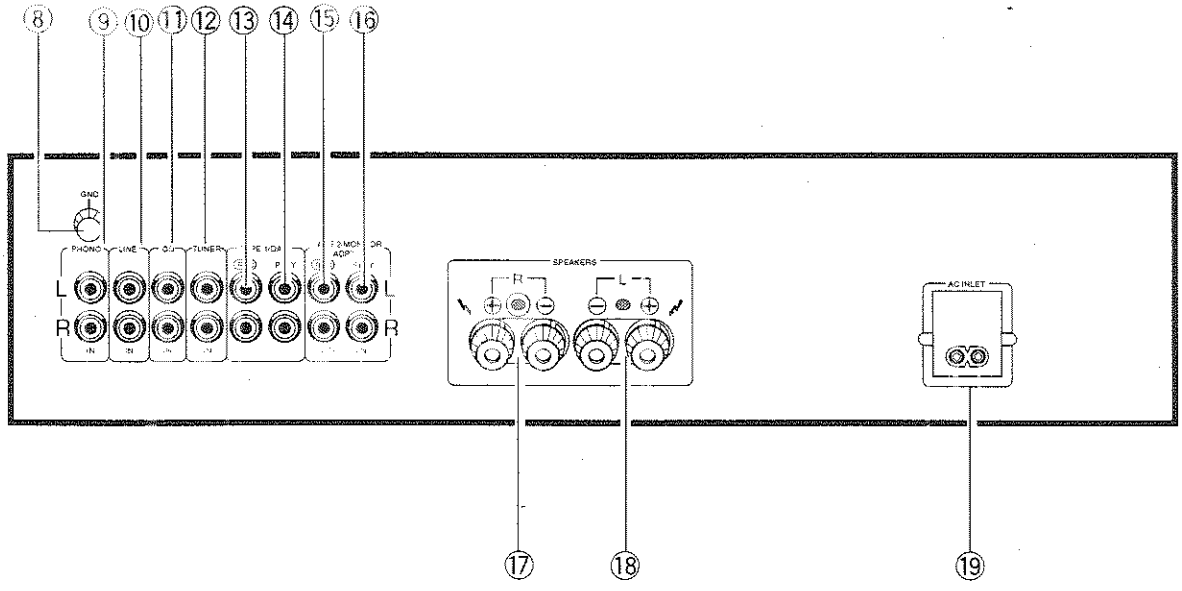
⑤ BALANCE control
Should normally be left in the center position. Adjust the balance if the sound is louder from one of the speakers. If the right side is louder, turn toward the L (left) position and if the left side is louder, turn toward the R (right) position.

⑥ VOLUME control
Use to adjust the volume level.

⑦ PHONES jack
When using headphones, insert the plug into this jack.

[REAR PANEL]

• Illustration shows U.K. model.



⑧ GND (Turntable ground) terminal

⑨ PHONO terminals

⑩ LINE terminals

⑪ CD terminals

⑫ TUNER terminals

⑬ TAPE 1/DAT REC terminals

⑭ TAPE 1/DAT PLAY terminals

⑮ TAPE 2/MONITOR (ADPT) REC (OUT) terminals

⑯ TAPE 2/MONITOR (ADPT) PLAY (IN) terminals

⑰ SPEAKERS terminals (Right channel)

⑱ SPEAKERS terminals (Left channel)

⑲ AC INLET jack
Connect power cord to here and an AC wall socket, or the AC outlet of an audio timer.
If you are going to be away from home for a long period of time, disconnect the unit from the wall socket.

OPERATIONS

The switch numbers used in the following explanations refer to the numbers appearing in the illustration on page 6.

BEFORE BEGINNING OPERATIONS

Set the controls and switches as follows: See page 6.

1. **Set the POWER switch ① to ON.**
2. **Set the BALANCE control ⑤ to the center position.**
3. **Set the TAPE 2 MONITOR switch ③ to off.**

PLAYBACK PROCEDURES

1. **Set the INPUT SELECTOR switch ④ to the desired playback source.**
   - For playback of a tape: Set to [TAPE 1/DAT].
   - For reception of an AM/FM broadcast: Set to [TUNER].
   - For playback of a compact disc: Set to [CD].
   - For playback of a component connected to the LINE terminals: Set to [LINE].
   - For playback of a record: Set to [PHONO].
2. **Operate the equipment to begin playback.**
3. **Adjust playback volume with the VOLUME control ⑥ on this unit.**

RECORDING TAPES

1. **Select the recording equipment with the INPUT SELECTOR switch ④.**
2. **Begin recording by operating the recording equipment and cassette deck.**
   - Refer to the operating instructions for your cassette deck for proper operating procedures.

COPY THE TAPE USING TWO DECKS

When two decks are used, you can record the sounds from one deck onto the other.

Application examples:

- To make a tape copy with contents identical to the original tape.
- To edit a recording of an FM broadcast in order to cut out unwanted commercials, recording only desired material onto another tape.

1. **Load the pre-recorded tape into the cassette deck connected to the TAPE 1/DAT terminal and the blank tape into the cassette deck connected to the TAPE 2/MONITOR (ADPT) terminal.**
2. **Set INPUT SELECTOR switch ④ to TAPE 1/DAT.**
   - Tape copying can only be performed in one direction, from the cassette deck connected to the TAPE 1/DAT terminal towards the cassette deck connected to the TAPE 2/MONITOR (ADPT) terminal.
3. **Operate the cassette decks to begin copying.**
   Set the cassette deck with the original (playback) tape to the playback mode, and set the cassette deck with the blank tape to the recording mode.

TO USE THE COMPONENT CONNECTED TO THE TAPE 2/MONITOR (ADPT) TERMINALS:

(For an adaptor component)

By connecting a graphic equalizer, source sounds (from records, tapes, AM/FM broadcasts, etc.) can be heard with added sound and tone compensation.

1. **Set the TAPE 2 MONITOR switch ③ to on.**
2. **Play back the source.**
3. **Operate the adaptor component.**

(For a cassette deck)

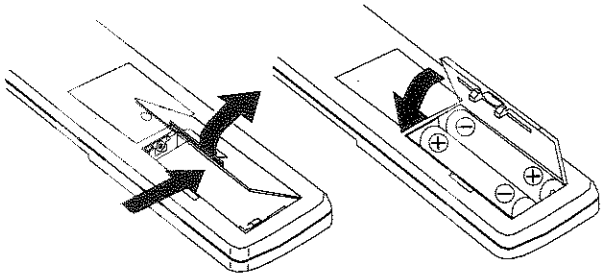
A cassette deck connected here can be operated in the same way (recording and playback) as a deck connected to the TAPE 1/DAT terminals.

On a cassette deck with the monitor function, (3-head deck) sound can be concurrently heard while recording on tape. This operation of checking the sound quality and recording level is called "monitoring".

1. **Set the TAPE 2 MONITOR switch ③ to on.**
2. **Operate the cassette deck to perform playback (or recording).**

REMOTE CONTROL

LOADING BATTERIES



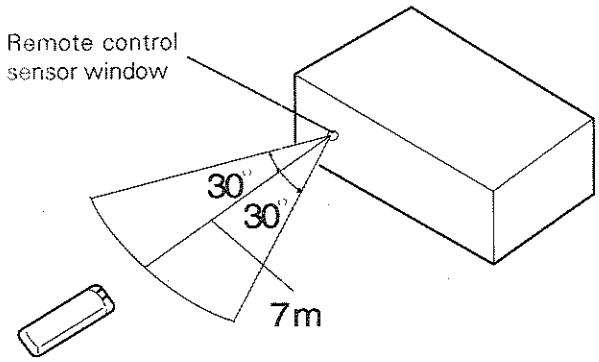
Open the battery compartment cover on the back of the remote control unit.
Insert size AA/R6P dry cell batteries into the battery compartment in accordance with the indications (⊕,⊖) inside the compartment.
Close the cover of the battery case.

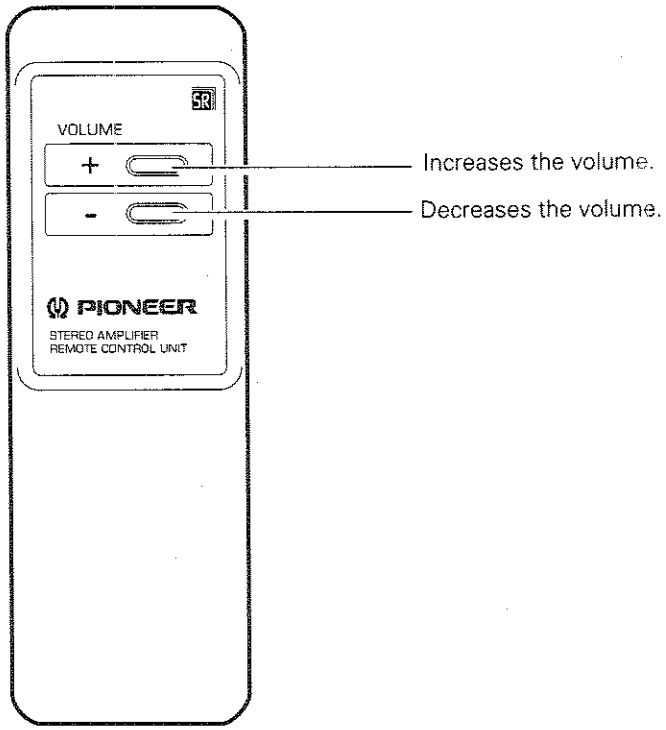
Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:

1. Always insert batteries into the battery compartment correctly matching the positive ⊕ and negative ⊖ polarities, as indicated inside the compartment.
2. Never mix new and used batteries.
3. Batteries of the same size may have different voltages, depending on their type. Do not mix different types of batteries.

RANGE OF REMOTE CONTROL

When the remote control unit is pointed at the remote sensor window on the stereo amplifier and any of its buttons is pressed, the unit and other components can be operated by remote control.
Distance: Within a range of approx. 7 meters from the unit's remote control sensor window.
Angle: Within approx. 30 degrees from the center of the unit's remote control sensor window.
Remote control will not be possible if there is an obstacle between the remote control unit itself and the unit's remote control sensor window.





TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
No power supplied to unit.	• Power plug is disconnected from outlet. • The amplifier's power plug has been plugged into another component's power outlet (e.g. timer, etc.) but power to that unit is disconnected.	• Insert plug securely into outlet. • Turn on power to other component.
No sound.	• Connecting cords are disconnected from terminals, or connected incorrectly. • Terminals, or connecting cords pin plugs are dirty. • The TAPE 2 MONITOR switch ③ is set to on (except when using an adaptor component). • Operation of other components is incorrect. • The position of the INPUT SELECTOR switch ④ does not match the component to be played back.	• Reconnect properly. • Clean terminals and plugs. • Set switch ③ to off. • Consult the operating instructions for the other components. • Set the switch ④ correctly (CD, PHONO, TUNER, TAPE 1/DAT).
No sound from one speaker.	• Connecting cords or speaker cords are disconnected on that side. • BALANCE control is set to one side.	• Connect securely. • Set BALANCE control to center position.
Cannot record tapes.	• Connections are incorrect. • Operation of cassette deck is incorrect.	• Reconnect properly. • Consult the operating instructions for the cassette deck.
Cannot perform tape copying.	• The positions of the INPUT SELECTOR switch ④ and TAPE 2 MONITOR switch ③ are incorrect (when using 2 cassette decks). • Operation of cassette decks is incorrect.	• Set switches correctly. (See the section on OPERATIONS.) • Consult the operating instructions for the cassette decks.
The remote control unit does not work. (Other components cannot be operated.)	• Batteries are dead or no batteries in remote control unit. • The remote control sensor is not receiving any signals. • A fluorescent light is shining on the remote sensor window.	• Insert new batteries (see page 9). • Operate the remote control unit within a range of 7 meters and an angle of 30 degrees (refer to page 9). • Move so fluorescent light does not shine directly on the amplifier's front panel remote sensor window.

• Abnormal functioning of this unit may be cased by static electricity or other external interference. To restore normal operation, unplug the AC power cord and then plug it in again.

SPECIFICATIONS

Amplifier Section

Continuous power output
(both channels driven at 20 Hz to 20 kHz)*
- T.H.D. 0.07 %, 8 Ω ..... 35 W + 35 W
- T.H.D. 0.1 %, 4 Ω ..... 40 W + 40 W

DIN Continuous power output (both channels driven at 1 kHz)
- T.H.D. 1.0 %, 8 Ω ..... 45 W + 45 W
- T.H.D. 1.0 %, 4 Ω ..... 55 W + 55 W

Dynamic power output (E.I.A. test signal)
- 4Ω ..... 66 W

Total harmonic distortion*
- 20 Hz to 20 kHz, 17.5 W, 8 Ω ..... 0.05 %

Input sensitivity/ impedance
- PHONO (MM) ..... 2.8 mV/ 50 kΩ
- CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 200 mV/ 50 kΩ

PHONO overload level
- 1 kHz, T.H.D. 0.1 % (MM) ..... 150 mV

Output level/ impedance
- TAPE 1/DAT, TAPE 2 MONITOR ..... 200 mV/ 1 kΩ

Frequency response
- PHONO (MM) ..... 20 Hz to 20 kHz ± 0.5 dB
- CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 5 Hz to 100kHz $^{+0}_{-3}$ dB

Signal-to-Noise ratio (IHF short circuit, A network)
- PHONO (MM, 5 mV input) 82dB
- CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 107 dB

Signal-to-Noise ratio (DIN, continuous power/ 50 mW)
- PHONO (MM) ..... 70 dB/ 64 dB
- CD, TUNER, LINE, TAPE 1/DAT, TAPE 2 MONITOR ..... 88 dB/ 67 dB

Power Supply/ Miscellaneous

Power requirements
- U.K. model ..... AC 230 Volts, 50/60 Hz
- Round 2-pin AC plug model ..... AC 220 ~ 230 Volts, 50/60 Hz
- Australia model ..... AC 240 Volts, 50/60Hz
- Multi-voltage model ..... AC 110 V/120~127 V/220 V/240 V (switchable), 50/60Hz

Power consumption ..... 330 W

Dimensions (including knobs and other protruding parts)
..... 420 (W) × 310 (D) × 110 (H) mm

Weight (without package) ..... 5.8 kg

Accessories

- Remote control unit 1
- Batteries (AA/R6P) 2
- Operating instructions 1
- Power cord 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

* Measured by Audio Spectrum Analyzer.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays and other chemicals on or near this unit, since these will corrode the surfaces.

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